HEXIUM

VIDOC

Digital Video Surveillance System

v1.60

User's Guide

Distributor:

HEXIUM

Technical Development Ltd.

Notes

If you have any questions about the system, or comments, advice to help our work, please do not hesitate to contact us at the following address or phone number:

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2. Installing The System

2.1. Minimal Configuration

The minimal configuration for running and using the system is the following:

- Intel Pentium Celeron 366MHz
- 64MByte RAM
- 4GB HDD free capacity
- Windows NT 4.0 (service pack 5)
- CD-ROM driver (to install)

The minimal configuration for running the demo is the following:

- Intel Pentium 200MHz
- 32MByte RAM
- 16MB HDD free capacity
- 4x CD-ROM driver
- Windows NT 4.0 (minimum service pack 3, service pack 5 advised

WARNING
Minimal configuration can differ from case to case depending on the software system.
The above data provide only general information. The manufacturer refuses all responsibility for damages arising from faulty installation or inappropriate configuration.

2.2. Steps of Installation

For the full installation of the Vidoc system, please follow the steps below:

- Install HV-PCI6 or any compatible digitising card: with the help of driver in the folder \hvpci6 on the install-CD: (Control Panel / Multimedia / Devices / Add)
- Install Hexium Multi IOCard –optional–: by running the program \iocard\install_nt.bat from the install-CD.
- Install Hexium ProGuard driver –optional–: by running the program \proguard\install.bat from the install-CD.
- Install Hexium Vidoc SA/MA/SL software by running \vidoc\setup.exe from the install-CD.
- Copy the licence floppy to the folder \vidoc and run install.bat (if it is on the floppy)
- Test-run, in which the proper running of the system elements must be checked (digitising card, I/O card).
- Change the web camera settings –optional- (see later)
- Install HexShell: –in the case of 24 hours operation system– (see later)

If you have any questions or problems concerning the installation, please go to the Appendix Frequent Questions/Errors at the end of the Guide or call us.

2.3. Change The Webcamera Settings

The installation process is made up by the following steps:

- Start to install the Microsoft Peer Web Services from the install CD of Microsoft Windows NT 4.0 (run the program \i386\InetSrv\InetStp.exe from the install CD)
- Do not install the following services, drivers: Gopher, Ftp, ODBC
- Set the World Wide Web publishing directory (e.g.: d:\InetPub ➔ d:\InetPub\wwwroot, d:\InetPub\scripts)
- After the successful installation, refresh the system with the most recent Windows NT 4.0 Service Pack (min. Service Pack 5)
- run the program called Internet Service Manager (Start / Programs / Microsoft Peer Web Services / Internet Service Manager)

- if several services run parallel, set the services to run only the www service
- at the parameters of the www service, choose the Directories page, and change the name of the Default document to index.html
- copy the content of webvidoc directory from the Vidoc install CD to the directory d:\InetPub
- after starting to run Vidoc, change the Local directory at Settings / Webcamera to directory d:\InetPub\scripts\

If you want to install the webcamera service to be accessible for anyone through local network:

- allow anonymous logon at the www service properties.

If you want to install the webcamera service to be accessible only by password through local network:

- at the www service properties do not allow either anonymous logon or Windows NT Challenge/Response, but tick the basic (clear text) password authentication
- create a new user (member of Guests group) with the help of User Manager (Start \ Programs \ Administrative Tools (Common)\ User Manager).
    - The suggested length of the password is at least of 6 characters including both small and capital letters as well as numbers.
- The newly created user will be able to control the pictures from the cameras through the web only by using his login and password.

If you have any questions or problems concerning the installation, please read the detailed description of the webcamera.

2.4. 24-hours Operation Mode

The 24-hours operation of the system is supported by the program called HexShell, which automatically joins the system after starting Windows NT, and starts the loading program of Vidoc.

HexShell itself is also protected by an access code, so access to the system is only allowed to those who are entitled. There are two levels of authority in HexShell. The first is the administrator level by which 24-hours or normal shell can be set, the other is the maintainer level by which the computer can be reset, shut down, or HexShell can be closed. The included codes are the following:

Type	Access code
administrator	admin
maintainer	log

IMPORTANT
Install or configure the HexShell module only after the successful test-run of Vidoc!

The steps of installation are the following:

- run the file \hexshell\c.bat from the CD, which will copy the files needed to run HexShell to the hard disc.
- run the program „regedt32.exe" and under the registration key HKEY_CURRENT_USER \ Software \ Hexium \ HexShell \ create the following identifiers:

Identifier	Type	Value
Logon	REG_SZ	Login name of the current user
LogonPsw	REG_SZ	Access code of the current user
Load0	REG_SZ	Vidoc Loader file name with full way of attainment

- start HexShell, then click on the „24-hours shell" button after typing the administrator code,
- type the maintainer code, then click on the reset button. The program will restart the computer in the 24-hours mode.

2.5. Included Users

All setting facilities and functions in the program are authority-dependent. Only the entitled user is authorised to change the settings or do other tasks (e.g. backup).

In the trade version of Vidoc, system configuration and user authority is set by an included user called Administrator. His Login name is „administrator", his access code is „administrator". It is important to change his access code in time after configuration, because the Administrator is entitled to change each functional and setting possibility in the system.

The login names and access codes of the users included in the demo version are the following:

User name	Login name	Base code
Administrator	administrator	administrator
Service-man	service	service
Doorman	doorman	doorman
Security guard	security	security

IMPORTANT
The authorities of the included users are set to show you an example.

Before applying the included users/authorities in a live system, please make sure to compare them with the defined safety policy.

3. Introduction

Due to our long experience in development, the dramatic progress in computer technology, and the use of special mathematical image processing and analysing methods, the most effective hardware and software devices are included in the most recent version of ***Vidoc Digital Video Surveillance System***.

The application of these most up-to-date achievements makes it possible for the Users to get access to such high quality functions that cannot be realised by traditional analogue, Time-Lapse video systems.

Hexium Vidoc
File Settings Event Log Backup & Restore Help
Gellért Square (1)
13 10 1998 13:39:44
Citadella (2)
13 10 1998 13:45:55
Fővám Square (3)
13 10 1998 13:25:55
Horváth Mihály Square (4)
21:11:36
manual backup: backup in progress (to backup: 3364 log / 6.92 MByte picture) (891 KByte)
Administrator
4468/100000 (1.18 GByte)
9.05 MByte/32.00 MByte (1.18 GByte)
4/16/01 2:59:18 PM

Vidoc Digital Video Surveillance System has the following advantages:

- High resolution digitising
- Image processing without loss in quality
- Possibility for detailed event log
- Easy and fast filter in the event log
- Intelligent motion and presence detector
- Functions to improve picture quality
- Restoring by DAT cassettes (high level of safety and convenience)
- Effective compression functions
- Included multiplexer

- Easy and cheap image forwarding to any distance through different communicational channels (telephone, hired line, GSM, ISDN, LAN, WAN, etc) (optional)
- Taking into consideration all user requirements

For the realistic overview on this special area, we have to add that the weakening but nowadays prevailing advantage of the traditional analogue systems is that –although they produce much worse image quality- they are cheaper and can be run more economically at the same level of restoring.

In the case of more complex systems, the digital system's better image quality, additional functions, its intelligent and flexible motion detection, and effective image compression compensate for the above evident advantages.

4. The Task of The System

The task of the system is to detect motion or presence of objects at the areas under camera surveillance, to log, back up and recall the system events and alarms.

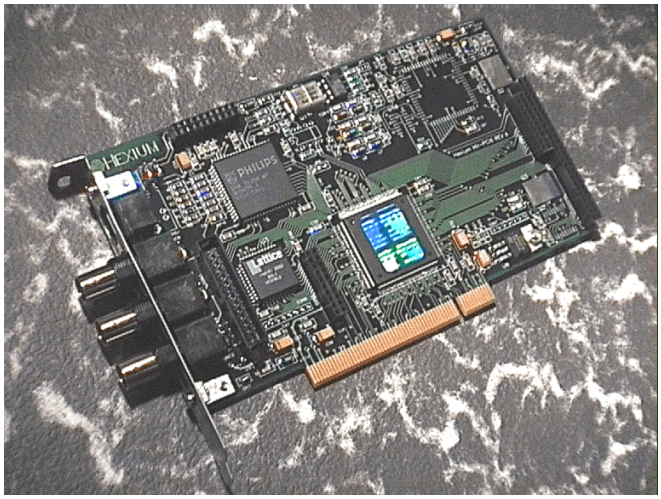
IMPORTANT INFORMATION

If you have any questions concerning the hardware or software operation of the system, please send them to us via fax or e-mail to help us provide better service to our clients.

We welcome all your professional questions, but we are also open to hear your advice, ideas, opinions that could help our developing work.

5. The Most Important Hardware Units

5.1. Digitising Unit



The unit that basically determines the quality of the system you bought is an HV-PCI6 video digitising (grabber) card. It makes it possible to digitise the standard (CVBS, S-Video) analogue video signals coming from different sources (camera, video) and to transfer them to an IBM PC compatible personal computer with a PCI bus main-board.

IMPORTANT INFORMATION
The software of Vidoc Digital Video Surveillance System and the HV-PCI6 video digitising card can co-operate optimally only with a PC with suitable performance.
In a configuration of weak performance the right operation of the system cannot be guaranteed!

The HV-PCI6 video digitising (framegrabber) card can handle 6 composite video signals (CVBS) or 3 pairs of intensity- (Y) and colour (C) signals.

The card can also process PAL, SECAM and NTSC standard video signals. The suitable input is selected by the software. The maximum speed of digitising is 25 pictures/sec (in case of NTSC signal 30 pictures); the best resolution is 768*576 (NTSC signal 640*480). The card has three operational modes. In the first one the digitised picture is greyscale (8 bit greyscale operational mode), which means 8 bits per pixel. In the second one colour difference signals contain information on the colour, and an intensity signal on the picture intensity. (16 bit YUV operational mode). In the third one an 8-bit colour component is used for each pixel (24 bit RGB operational mode).

5.2. Backup Unit

5.2.1. Device Overview

Nowadays the most economical backup device of digital video systems is DAT backup unit. You can see this statement justified in the following table containing the cost analysis of different backup units per 1 GB (March 2001).

Name	Capacity	Investment	Price of the backup unit	Cost
DAT	12 000 MB	220 000 HUF	3 500 HUF	290 HUF/GB
rewritable CD	640 MB	60 000 HUF	1 100 HUF	1 720 HUF/GB
HDD	10 200 MB	-	22 000 HUF	2 160 HUF/GB
5.2 GB OD	5.2 GB	520 000 HUF	23 500 HUF	4 500 HUF/GB
A:DRIVE	120 MB	20 000 HUF	2 000 HUF	16 500 HUF/GB

5.2.2. Conclusion

The above table shows that presently DAT has no rival if you need to store large amount of data. (In this review only the backup devices under 500 000 HUF were compared.)

On the other hand, the table also shows that if you need to store only a limited amount of data, A:DRIVE can be a good solution considering the investment cost.

Certainly, besides the above-mentioned backup devices, high capacity, fast HDD must also be installed to the system, which can function as a temporary storage, too.

5.3. Industrial Computer

IMPORTANT INFORMATION
The software of Vidoc Digital Video Surveillance System and the HV-PCI6 video digitising card can co-operate optimally only with a PC with suitable performance.
If you want to install the system to a traditional PC, please consult with one of our experts about the configuration needed.
In a configuration of weak performance the right operation of the system cannot be guaranteed!

It is important to note that if you want to achieve reliable 24/7 operation mode for the industrial version of the system, regular maintenance is essential (e.g. cleaning the air filter regularly).

If you buy a complex system of 24/7 category, we suggest a PC running with Windows NT and using industrial mainboard and chassis. These devices and their supplementary units (power supply, fan, air filter, etc.) together provide the continuous and reliable 24-hours operation.

6. The Operation of The System

6.1. Picture Digitising Methods

The system can make pictures from the installed cameras either "automatically" or "manually". The aim of the automatic picture digitising is to have the cameras under continuous surveillance, i.e. to provide a continuous protection of the objects. The aim of the manual picture digitising is to make pictures in certain situations (e.g. alarm, operator's command) from a given camera and to store them in the event log.

The digitising unit keeps to the automatic digitising (in an automatic order) until a manual picture-digitising request arises. If there is still a need for digitising manually after making the first picture (e.g. a request could come during digitising), and there was not "too many" manual pictures made (priority of manual pictures), then a new manual picture will be digitised. If not, then the unit will digitise from the next camera in the automatic order. Digitising is done by the HV-PCI6 digitising card according to the set parameters (registers).

6.2. Trigger

The task of the trigger unit is to take pictures from the cameras at given times, in given sizes and qualities according to its settings. These pictures are stored in the event log.

6.3. WatchDog

With complex, 24-hours systems (24/7 type systems), it is essential to use an independent supervisory unit. Its task is to control the run of the system, or to reset it in case of system stops due to network problems or outside influences. At regular times the running system informs an outside unit about its correct operation. If this unit does not get this feedback within a certain time (TimeOut), the superior unit will start the reset of the system.

6.4. Operator Functions

The staff responsible for surveillance has two important functions. First, -if they have the right- they can store a picture from any cameras (operator pictures) by clicking the left mouse button at the picture of the given camera.

Second, they can magnify the pictures by using the F1-F12 function keys. They can return to the first function by pressing the Esc key.

7. User Interface

At the start of the system, the user can see the program menu at the top of the screen, and the pictures from the cameras below.

7.1. The Menu Structure of The Program

The menu structure of the program -depending on the version (Stand Alone/Master/Slave) is the following:

File

- Log In
- Log Out
- Change Password
- System Events
- Exit
- Restart
- Shut Down

Settings

- Display
- Digitising
- Trigger
- WatchDog
- Pan/tilt/zoom (optional)
- Motion Detector
- External Alarm Inputs (optional)
- Compression
- Backup and Restore (optional)
- Network (optional)
- Alarm Signal
- Web Camera
- Rights
- Save Settings
- Restore Settings

Event Log

Backup & Restore

- Automatic backup (optional)
- Manual backup (optional)
- Restore (optional)

Modem

Dial
Hang up

Help

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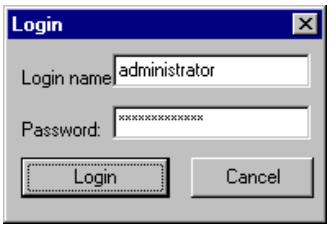
8. File menu

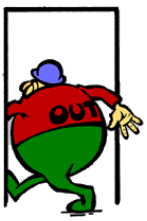
8.1. File/Log In

In this menu you can log in to the system by giving your exact login name and password (the previous user will be logged out automatically).

Login name, Password: here you can give the data necessary for log in.

Log in: you can log in with the given data.



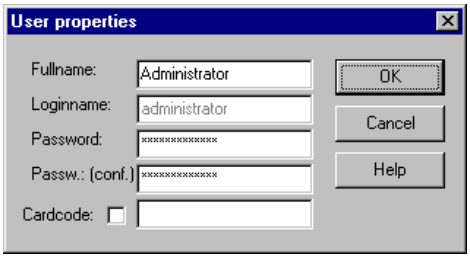


8.2. File/Log out

In this menu you can log out from the system. After log out a special user, called "default user" will become current. His rights should be set so as not to be able to change the system settings.

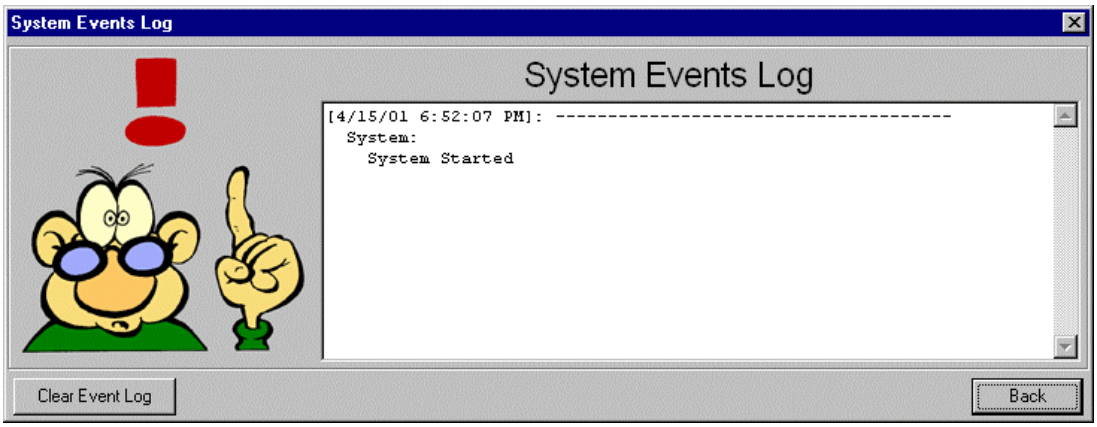
8.3. File/Change Password

In this menu you can change your password



8.4. File/System Messages

You can see the system event log (e.g.: event log is full, pictures are lost, etc.)



Clear Event Log: you can clear the system events

8.5. File/Exit

You can exit from the program.

8.6. File/Restart

You can restart the system (only in case of 24-hour shell).

8.7. File/Shut Down

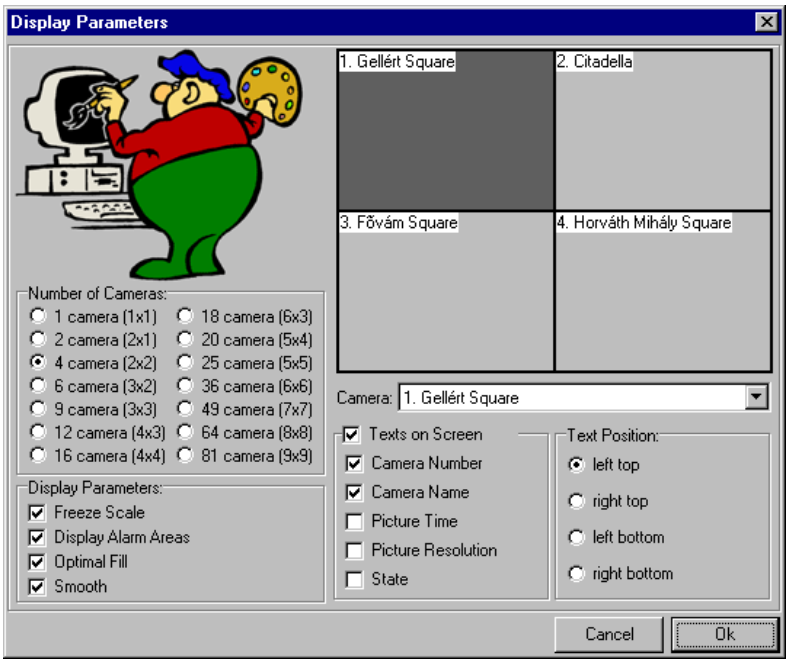
You can shut down the system (only in case of 24-hour shell).

9. Settings

In this menu you can find the functions by which you can change the settings of the system.

9.1. Settings/Display

In this menu you can set the parameters of display. In the top right part of the dialogue box you can see the simplified picture of the screen. The parameters of display are the following:



Number of Cameras: you can set the number and arrangement of cameras displayed together at the screen (e.g. 12 cameras (4x3) – 4 camera pictures horizontally, 3 vertically)

Display Parameters: the mode of camera display:

Freeze Scale: pictures are displayed at a 3:4 scaled area, even if only a part of the screen is used this way.

Display Alarm Areas: if the system detects alarm with one of the cameras, the contour of the alarmed surface is displayed as red.

Optimal Fill: the camera picture is enlarged/reduced to be displayed at the largest possible size.

Smooth: if the digitised picture is of high resolution (768x576), in case of motion displayed you can see stripes due to the fact that the digitised picture is made up by two half-pictures. This error is corrected by this setting.

Texts on Screen: textual information about the picture:

Camera Number, Camera Name: you can see the number and name of camera

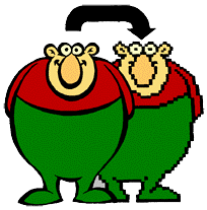
Picture Time: you can see the time the picture was taken

Picture Resolution: you can see the resolution and mode of the picture

State: you can see the state of the picture (alarmed/manual/etc.)

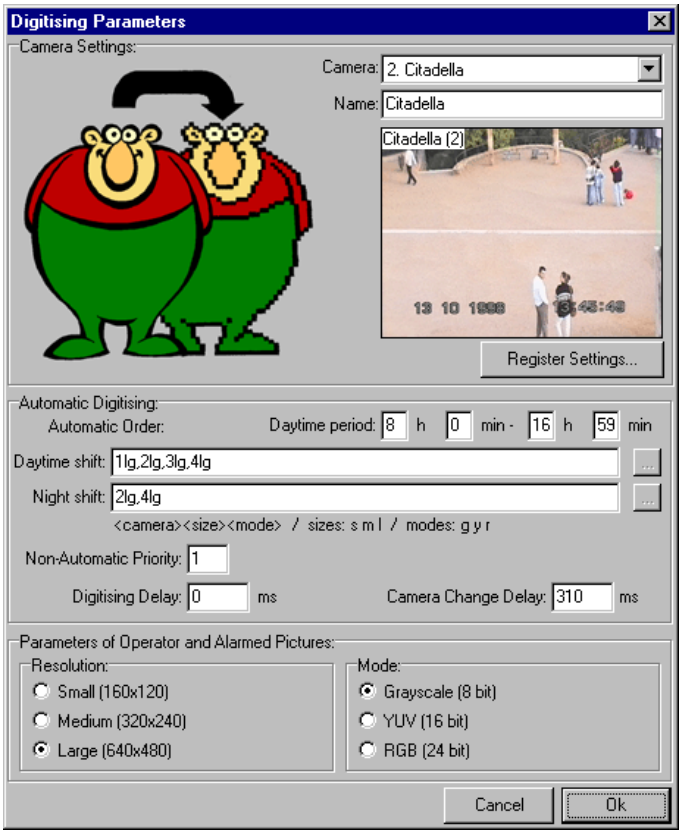
Text Position: the position where textual information is displayed

Camera: you can set where to see the camera pictures at the screen. This setting is valid for the current screen position, which can be selected by mouse.



9.2. Settings/Digitising

In this menu you can set the parameters of digitising. At the top of the dialogue box you can change the settings for each camera, while at the lower part you can set the parameters of automatic picture digitising.



Digitising Parameters

Camera Settings:

Camera: here you can select the camera

Name: you can change the camera name

Register Settings: you can change the digitising parameters

Automatic Digitising:

You can see the order of automatic digitising; it determines the order in which the system takes the pictures (the priority of a camera can be increased by listing it more times than the others)
<camera><size><mode>[, <camera><size><mode>, …]
camera: camera number
size: l|m|s
l (large): 768x576
m (medium) 384x288
s (small) 192x144
mode: g|y|r
g (greyscale) greyscale (8 bit)
y (YUV) YUV (16 bit) coloured /slow/
r (RGB) RGB (24 bit) coloured

e.g.:

#1. 1lg, 2lg, 3lg, 4lg
#2. 1lg, 2lg, 1lg, 3lg, 1lg, 4lg
#3. 1lg, 2mr, 3lg, 4sy

Daytime period: you can set the time interval for the daytime automatic order. In the rest of the 24 hours the night shift automatic order is valid

Daytime shift: you can set the automatic order used during the daytime shift

Night shift: you can set the automatic order used during the night shift

Non-automatic priority: determines the proportion of manually digitised pictures, i.e. the maximum number of manual pictures before the next automatic digitising.

Digitising Delay: the time scale between two digitised pictures, expressed in ms

Camera Change Delay: if the two pictures in succession are taken from two different cameras, the Camera Change Delay (expressed in ms) shows the time needed for the system to start to synchronise with the new camera signal. This setting is valid only after computer reset.

Resolution: the size of the automatic picture

Video mode: the video mode of the automatic picture

9.3. Register Settings

In this menu you can set the digitising parameters of the video input.

Register: you can select the digitising card registers.

Value: you can set the register value

Default: sets the selected register at default value

Default All: sets all registers at default value

9.4. Settings/Trigger

In this menu you can set the parameters of triggering:

Camera: you can select the camera

Trigger time: time of triggering in sec

Resolution: the resolution of the triggered picture

Video mode: the video mode of the triggered picture

IMPORTANT
In case of overloaded system it is possible that the picture from a camera will not be triggered when the triggering time has passed.
In this case set the triggering time parameters longer.

9.5. Settings/WatchDog

In this menu you can set the parameters for WatchDog:

WatchDog Device:

Time-Out: the time limit after which WatchDog restarts the system

Device Type: the type of WatchDog

Device Type/Settings: you can set the parameters

WatchDog Device Parameters:

Parallel Port:

Port Address: the port address of the WatchDog device

Acknowledge: bites acknowledging WatchDog

Serial Port:

Port Address: see above

Speed: the speed of the serial port

Acknowledge: see above

Industrial Mainboard:

Enable: the port address enabling the WatchDog device

Disable: the port address disabling the WatchDog device

Refresh: the port address refreshing the WatchDog device

Acknowledge: you can set what the system has to do to acknowledge the WatchDog device.

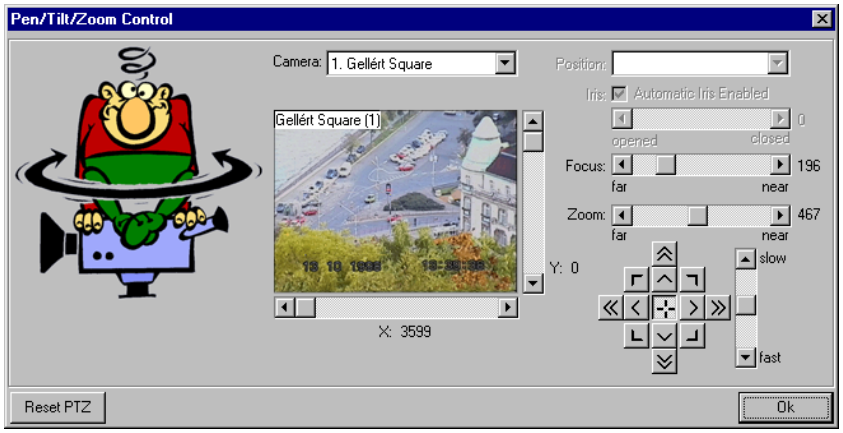
Hexium proGuard:

proGuard Type: you can set the type of Hexium proGuard WatchDog device

Device: you can select the hardware containing the WatchDog device

9.6. Settings/ Pen/Tilt/Zoom

In this menu you can set the camera Pen/Tilt/Zoom.

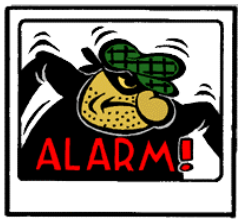


Camera: you can select the camera

Position: you can select from settings defined beforehand

Iris, Focus, Zoom: you can set the optical parameters

<arrows>: you can move the camera up, down, to the right, to the left, or back to the default position (the mouse can also fulfil this function, if you click the right mouse button at the camera picture and move it /the same as drag and drop)



9.7. Settings/Motion Detector

In this menu you can define the motion detector areas and set their parameters.

Camera: you can select the camera

Area: you can select the area

Name: you can name the area

Area Active: you can activate the area (make live)

Sensitivity: the sensitivity of the area (general value between 5-20% depending on light conditions)

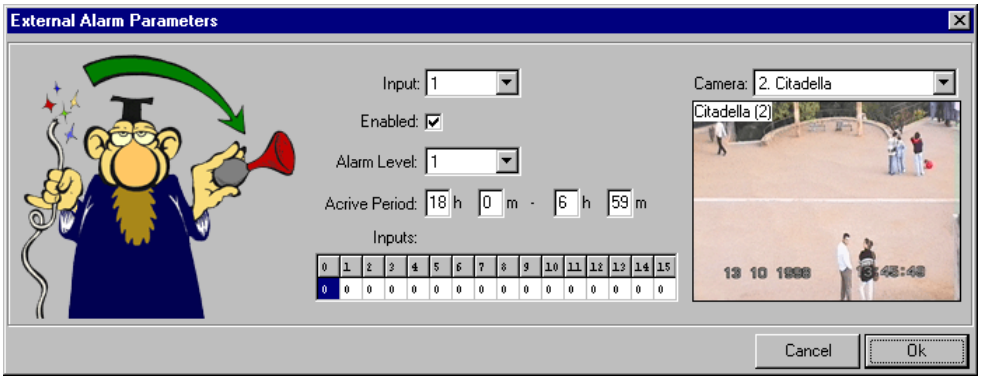
Time Value: you can set the adaptability parameters of the area (=1:motion detector, >1:presence detector)

Left, Right, Top, Bottom: you can set the position and size of the area

Start Time-End Time: you can set the intervals when the motion detector area is active

9.8. Settings/External Alarm Inputs

In this menu you can set the triggering parameters of the external analogue signals:


External Alarm Parameters
Input: 1
Enabled:
Alarm Level: 1
Acrive Period: 18 h 0 m - 6 h 59 m
Inputs:
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Camera: 2. Citadella
Citadella (2)
13 10 1998
Cancel
Ok

Input: you can select the input (8 or 16 depending on the system required)

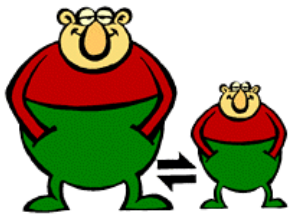
Enabled: you can enable the input

Alarm Level: you can set the logical alarm level (0 or 1)

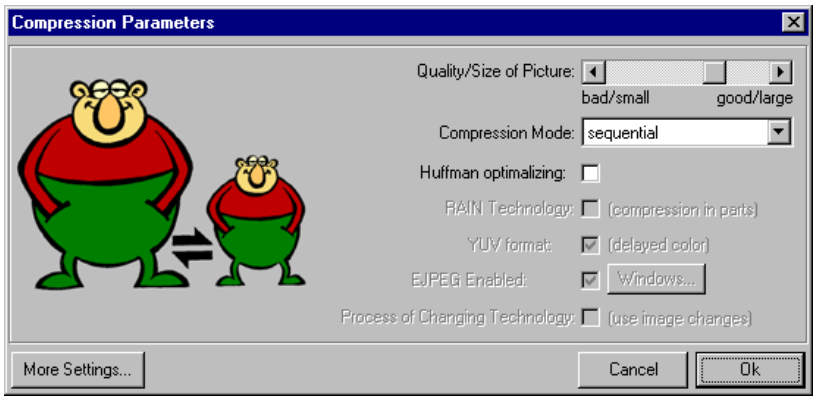
Camera: you can make connection between the input and a camera; you can check the camera picture at the right side of the dialogue box

Active Period: you can set the time interval when the alarm signal of the input does results in a real alarm

Inputs: you can see the current state of the inputs

9.9.  *Settings/Compression*

In this menu you can set the compression parameters:



RAIN Technology: compression is carried out in several parts

(this version does not include this function)

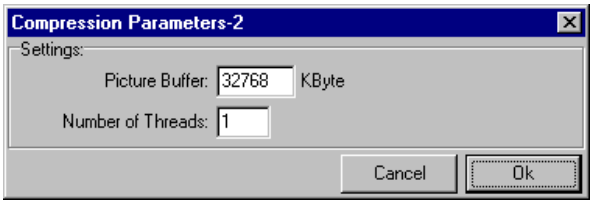
YUV format: delayed colour

EJPEG Enabled: compression parameters are different for each window of picture
(this version does not include this function)

EJPEG/Windows: you can set the EJPEG windows and their compression parameters
(this version does not include this function)

Process of Changing Technology: the compression unit records only the changes
(this version does not include this function)

More Settings: in this menu you can set other compression parameters of secondary importance:

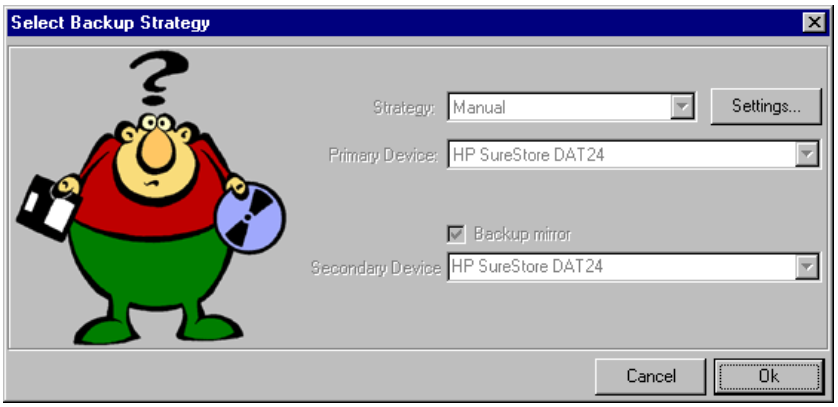


Picture buffer (per camera): you can define the size of the memory reserved for compression, expressed in kilobyte.

Number of Threads: you can set the number of compression threads in the background. In single-processor computers the values 1, 2, in multi-processor computers the values 1-3 are suggested. If the number of threads is relatively high, the user interface of the system will slow down.

9.10. Settings/Backup

Select Backup Strategy:



Strategy: you can select the backup strategy

Primary Device: you can select the primary backup device

Backup mirror: you can set if you want the data mirrored to the secondary device

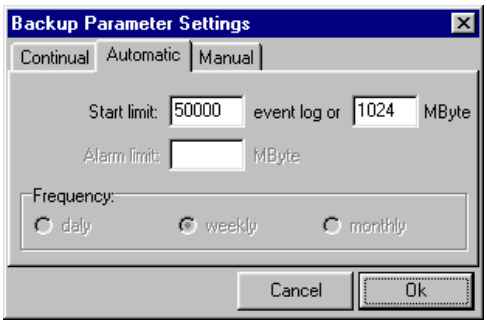
Secondary Device: you can select the secondary backup device

Setting the Backup Parameters:

Continuous: continuous system backup to the primary device

Alarm limit: if free space in general is less than the value you set here, the system sends a warning message

Automatic: automatic system backup to the primary device

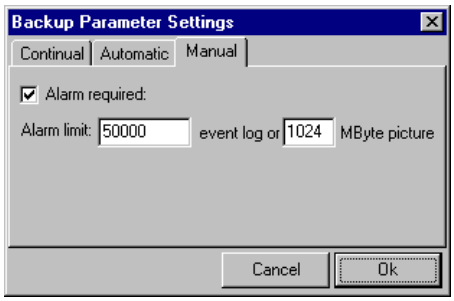


Start limit: if as many events or pictures piles up for backup as the value you set here, the backup process starts automatically

Alarm limit: see above

Frequency: the maximum period of automatic data assemble and backup; if the frequency time defined has passed since the last backup, data backup will start even if the number of data for backup has not reached the start limit

Manual:

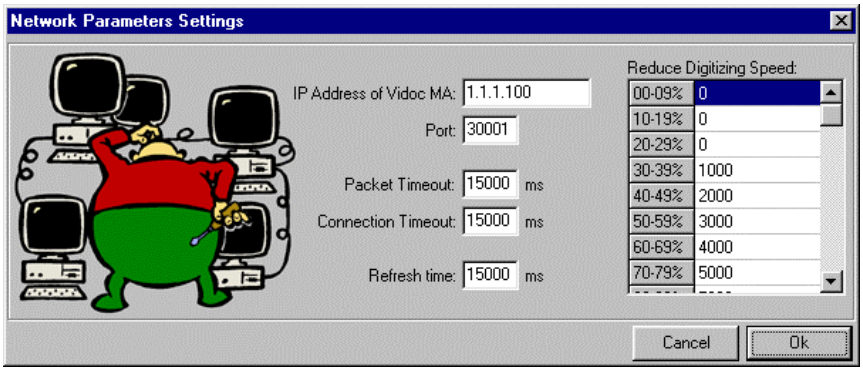


Alarm required: if ticked, the user will be warned when the number of events or size of pictures reaches the set limit

Alarm limit: see above

9.11. Settings/Network

You can set the network parameters for the Slave units:



IP Address of Vidoc Master: you can set the IP address of the Master unit (1.1.1.100)

Port: you can set the port through which the current Slave unit is connected to the Master unit. As this identification number defines the number of the Slave unit, you should set it in the following way:

Unit	Port
Slave-1	30001
Slave-2	30002
Slave-3	30003
Slave-4	30004

Packet, Connection Timeout: you can set the timeout value allowed for network connection and the packages

Refresh Time: normally only the stored pictures are transferred to the Master unit. In this menu you can set the time after which the system sends a picture from the camera in question in any case.

WARNING

The pictures sent when the refresh time has passed are not stored either in the Slave or the Master unit. The above function only helps control of the Master unit.

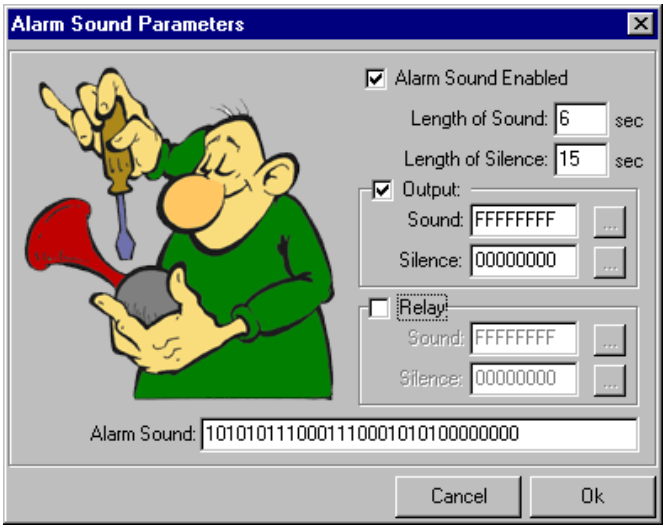
If you set refresh time too low, you will unnecessarily load the network and the Slave unit, therefore hindering the compression and transfer of alarm pictures.

WARNING

If any of the computers responsible for running the Vidoc system belongs to another network besides the closed network of the Vidoc systems, Hexium Ltd. does not take the responsibility for any damage or problem due to the incorrect operation or configuration of the operational system or the computer network, or the hacker/cracker attacks.

9.12. Settings/Alarm Signal

In this menu you can set the alarm sound parameters:



Alarm Sound Enabled: you can enable the alarm sound

Length of Sound: you can set the length of alarm sound

Length of Silence: you can set the length of silence (after pressing the „+" button)

Output: you can enable the control over the output

Sound: you can set the value for the output: sound output

Silence: you can set the value for the output: silence output

Relay:

Sound: you can set the value for the relay: sound output

Silence: you can set the value for the relay: silence output

Alarm Sound: you can set the alarm sound rhythm (0-silence, 1-sound)

9.13. Settings/Webcamera

The system makes it possible to watch the camera pictures through intranet, web interface. As with the trigger function, you can set the

refreshing parameters for each camera (time, resolution, video mode). However, the pictures prepared are not stored in the picture database, but in a directory that you can set. The html files used for the web interface are also in the set directory and refer to and show these picture files.

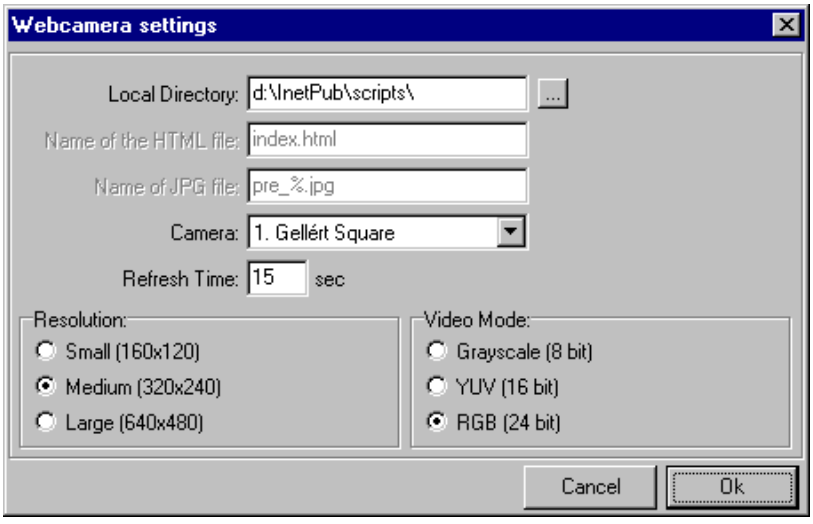
A webcamera co-operates with the following web browser software:

- Microsoft Internet Explorer 4.0
- Microsoft Internet Explorer 5.0 (suggested)

WARNING

If any of the computers responsible for running the Vidoc system belongs to another network besides the closed network of the Vidoc systems, Hexium Ltd. does not take the responsibility for any damage or problem due to the incorrect operation or configuration of the operational system or the computer network, or the hacker/cracker attacks.

You can set the webcamera parameters:



Local Directory: you can set the place to find the pictures for the webcamera

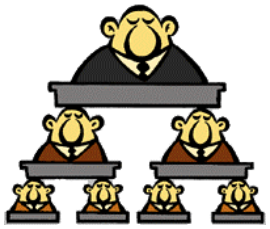
Name of the HTML file: you can set the name of the generated HTML file

Name of the JPG file: you can set the name of the stored picture file, which should also contain the camera number ('%').

Camera: you can select the camera

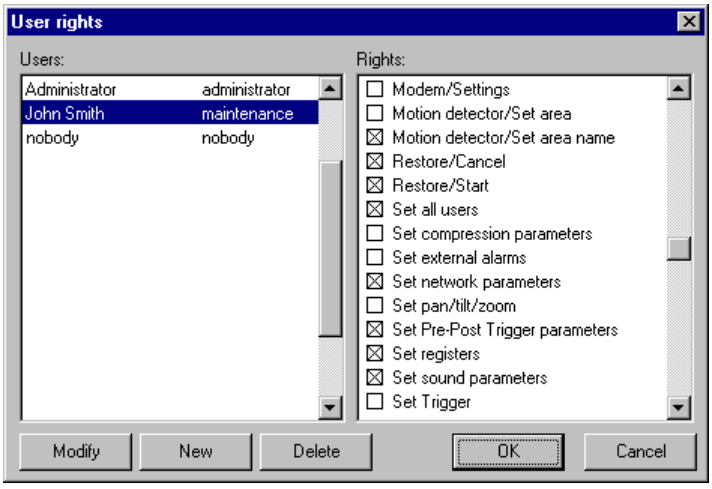
Refresh Time: you can set the time related to the selected camera after which the camera picture is refreshed on the web (see: Trigger); 0: no refresh

Resolution, Video mode: you can set the resolution and video mode of the web picture related to the given camera



9.14. Settings/Rights

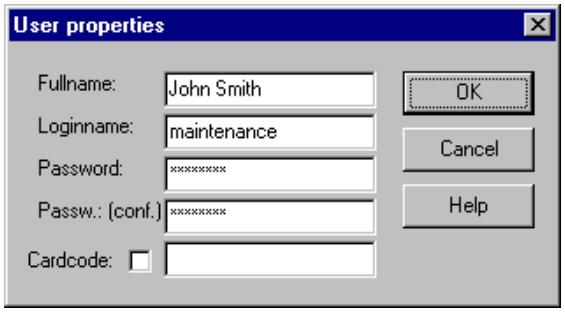
In this menu you can delete or create users, or you can set the rights of different users.



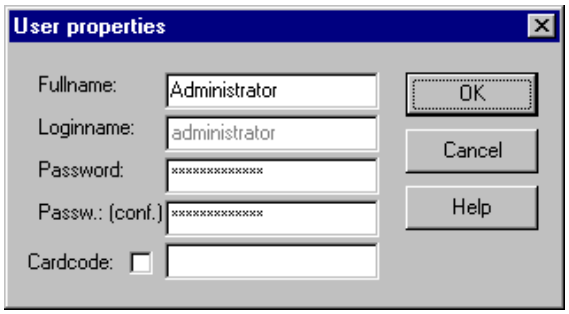
Users: you can see the full and login name of each user

Rights: you can set the user's rights (you can give only those rights that you possess) (for the list of rights see Appendix)

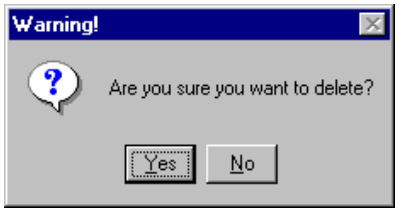
New: you can create new user



Modify: you can modify the password and/or name of the selected user



Delete: you can delete an existing user



9.15. Settings/Save Settings

In this menu you can save the settings of the system.

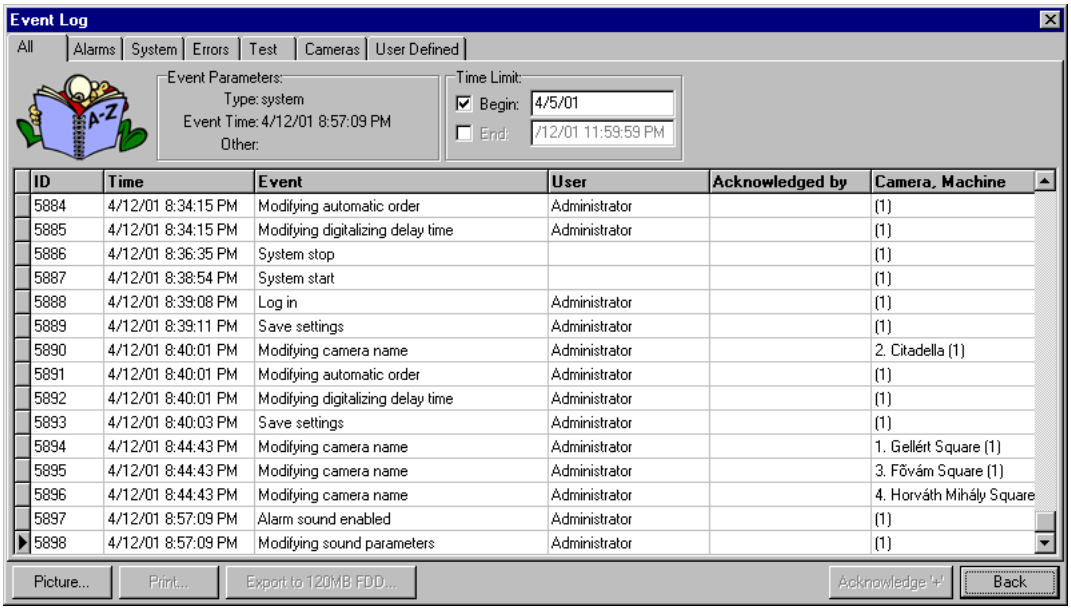
9.16. Settings/Restore Settings

In this menu you can reload stored settings. When the restoration process ends successfully, you can see the following message box:

10. Event Log

10.1. Events

You can check the event log, acknowledge alarms or errors.


Event Log
All
Alarms
System
Errors
Test
Cameras
User Defined
Event Parameters:
Type: system
Event Time: 4/12/01 8:57:09 PM
Other:
Time Limit:
Begin: 4/5/01
End: /12/01 11:59:59 PM
ID | Time | Event | User | Acknowledged by | Camera, Machine
5884 | 4/12/01 8:34:15 PM | Modifying automatic order | Administrator | | (1)
5885 | 4/12/01 8:34:15 PM | Modifying digitalizing delay time | Administrator | | (1)
5886 | 4/12/01 8:36:35 PM | System stop | | | (1)
5887 | 4/12/01 8:38:54 PM | System start | | | (1)
5888 | 4/12/01 8:39:08 PM | Log in | Administrator | | (1)
5889 | 4/12/01 8:39:11 PM | Save settings | Administrator | | (1)
5890 | 4/12/01 8:40:01 PM | Modifying camera name | Administrator | | 2. Citadella (1)
5891 | 4/12/01 8:40:01 PM | Modifying automatic order | Administrator | | (1)
5892 | 4/12/01 8:40:01 PM | Modifying digitalizing delay time | Administrator | | (1)
5893 | 4/12/01 8:40:03 PM | Save settings | Administrator | | (1)
5894 | 4/12/01 8:44:43 PM | Modifying camera name | Administrator | | 1. Gellért Square (1)
5895 | 4/12/01 8:44:43 PM | Modifying camera name | Administrator | | 3. Fővám Square (1)
5896 | 4/12/01 8:44:43 PM | Modifying camera name | Administrator | | 4. Horváth Mihály Square
5897 | 4/12/01 8:57:09 PM | Alarm sound enabled | Administrator | | (1)
5898 | 4/12/01 8:57:09 PM | Modifying sound parameters | Administrator | | (1)
Picture...
Print...
Export to 120MB FDD...
Acknowledge
Back

The system provides the following lists:

All: you can see all events

Alarms: you can see all alarms

System: you can see all system messages

Errors: all errors

Text: all text messages

Cameras: all messages related to the selected camera or area

User defined: all messages meeting the requirements given by the user

Others:

Event Parameters: you can see the special parameters of the current event

Picture...: you can view or edit the picture related to the selected event (see later)

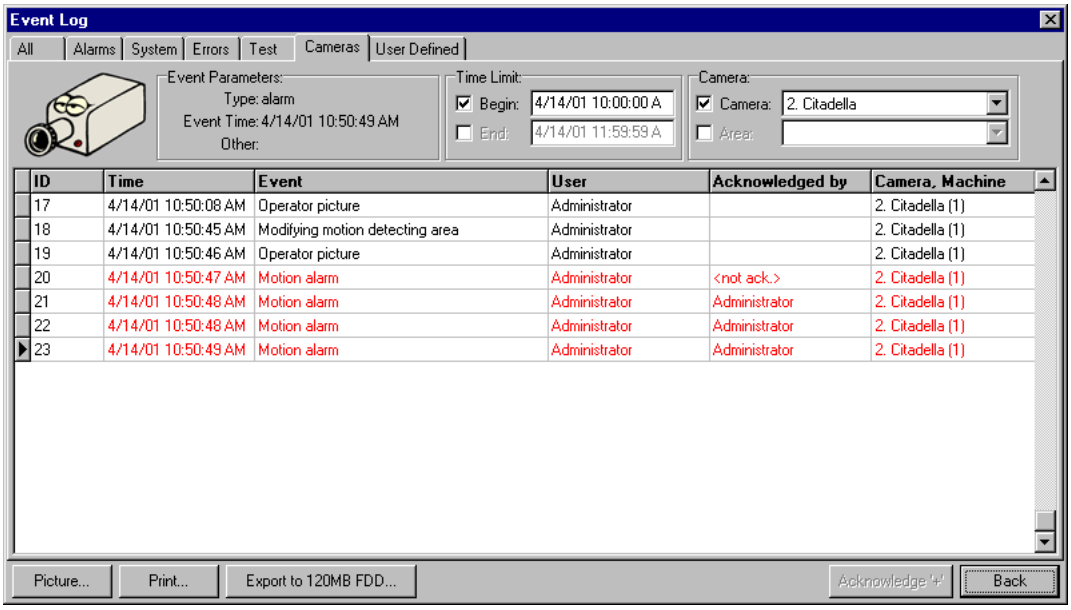
Print...: you can print the events (see later)

Export to 120MB FDD...: exporting the events and the related pictures (see later)

Acknowledge: you can acknowledge the current event

Detailed description of the special list functions:

Cameras:


Event Log
All
Alarms
System
Errors
Test
Cameras
User Defined
Event Parameters:
Type: alarm
Event Time: 4/14/01 10:50:49 AM
Other:
Time Limit:
Begin: 4/14/01 10:00:00 A
End: 4/14/01 11:59:59 A
Camera:
Camera: 2. Citadella
Area:
ID | Time | Event | User | Acknowledged by | Camera, Machine
17 | 4/14/01 10:50:08 AM | Operator picture | Administrator | | 2. Citadella (1)
18 | 4/14/01 10:50:45 AM | Modifying motion detecting area | Administrator | | 2. Citadella (1)
19 | 4/14/01 10:50:46 AM | Operator picture | Administrator | | 2. Citadella (1)
20 | 4/14/01 10:50:47 AM | Motion alarm | Administrator | <not ack.> | 2. Citadella (1)
21 | 4/14/01 10:50:48 AM | Motion alarm | Administrator | Administrator | 2. Citadella (1)
22 | 4/14/01 10:50:48 AM | Motion alarm | Administrator | Administrator | 2. Citadella (1)
23 | 4/14/01 10:50:49 AM | Motion alarm | Administrator | Administrator | 2. Citadella (1)
Picture...
Print...
Export to 120MB FDD...
Acknowledge
Back

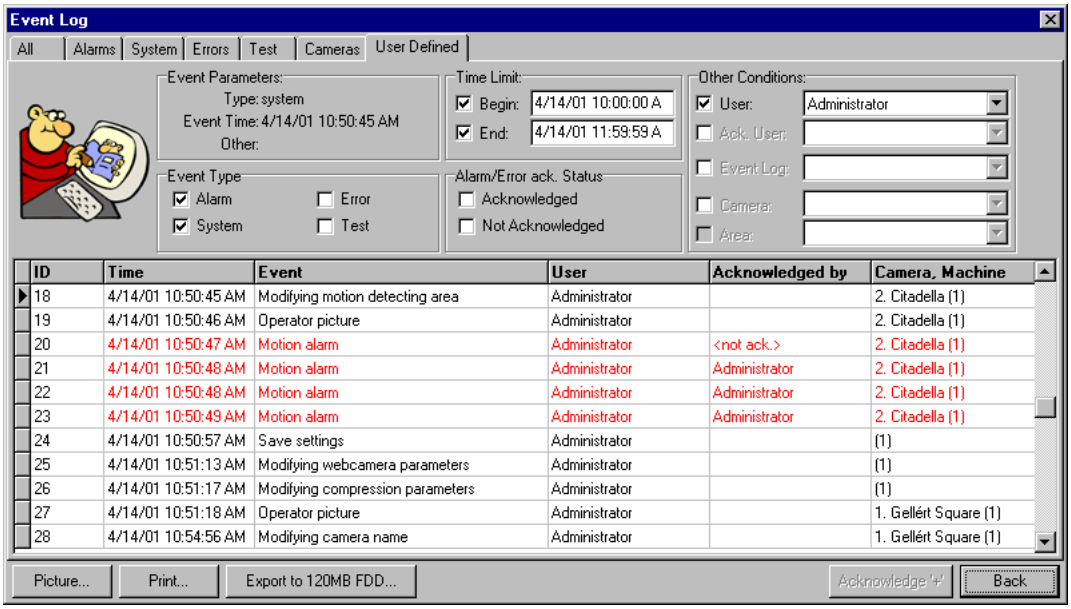
Camera:

Camera, Area: you can set the camera filters

Time Limit:

Begin, End: you can set the event log time filters

User Defined:



Event Type:

Alarm/Error/System/Test: you can set the type of the listed event

Alarm/Error ack. Status: if the selected event is an alarm or an error, the event can be acknowledged

Acknowledged: lists the acknowledged events

Not Acknowledged: lists the unacknowledged events

Time Limit:

Begin, End: see above

Other Conditions:

User: you can select the user who was logged in at the time of the event

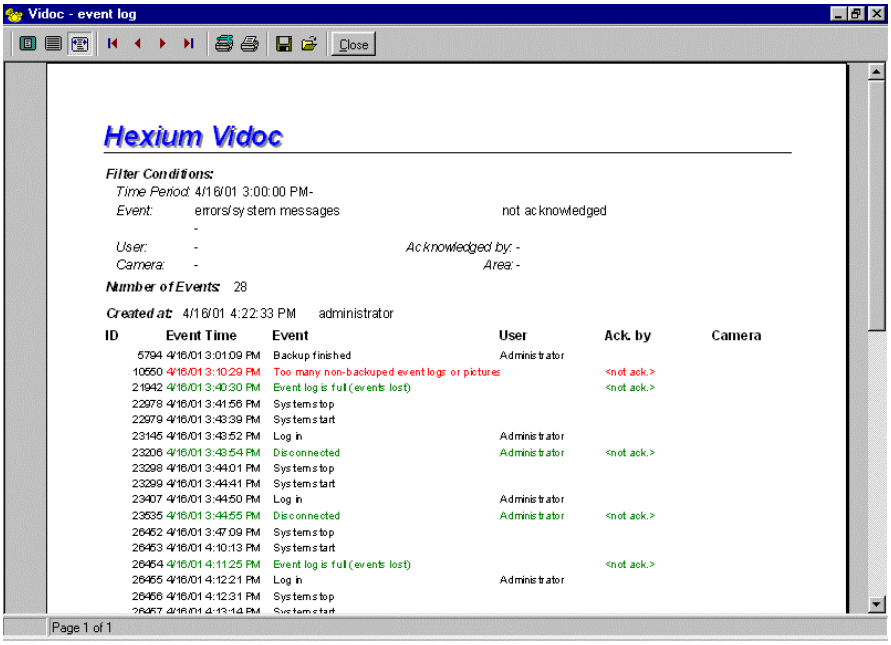
Ack User: you can select the user who acknowledged the event

Event Log: you can select the event

Camera, Area: see above

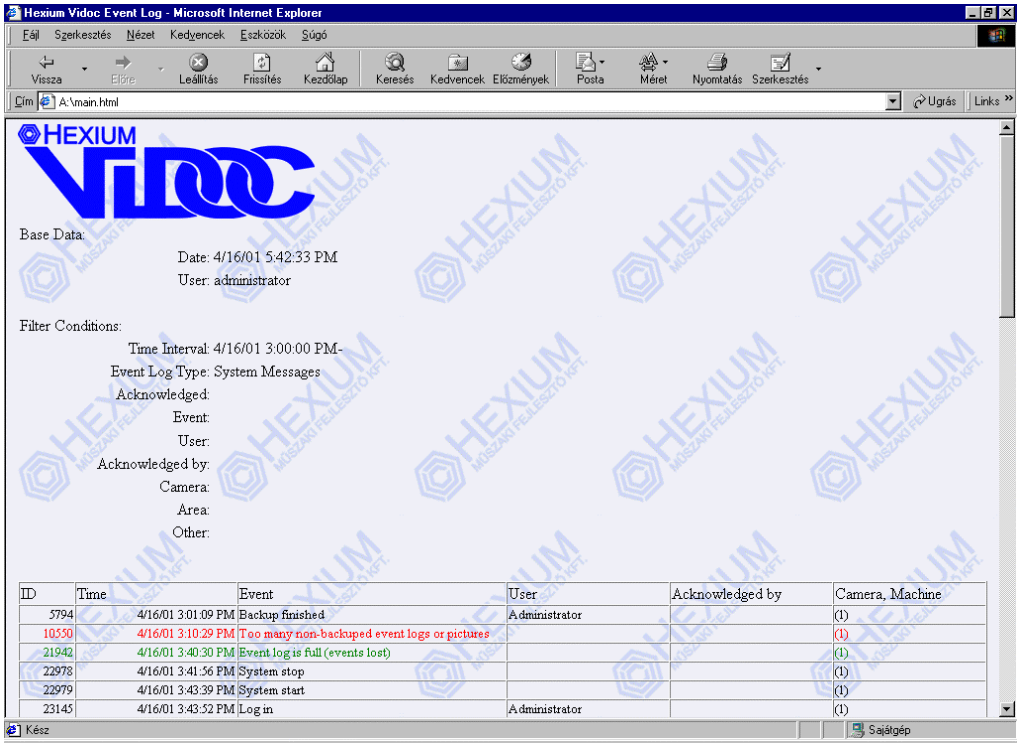
10.1.1. Print

You can print event logs according to the set filters:


Vidoc - event log
Close
Hexium Vidoc
Filter Conditions:
Time Period: 4/16/01 3:00:00 PM-
Event: errors/system messages not acknowledged
User: - Acknowledged by: -
Camera: - Area: -
Number of Events: 28
Created at: 4/16/01 4:22:33 PM administrator
ID Event Time Event User Ack. by Camera
5794 4/16/01 3:01:09 PM Backup finished Administrator
10550 4/16/01 3:10:29 PM Too many non-backuped event logs or pictures <not ack.>
21942 4/16/01 3:40:30 PM Event log is full (events lost) <not ack.>
22978 4/16/01 3:41:56 PM System stop
22979 4/16/01 3:43:39 PM System start
23145 4/16/01 3:43:52 PM Log in Administrator
23206 4/16/01 3:43:54 PM Disconnected Administrator <not ack.>
23298 4/16/01 3:44:01 PM System stop
23299 4/16/01 3:44:41 PM System start
23407 4/16/01 3:44:50 PM Log in Administrator
23535 4/16/01 3:44:55 PM Disconnected Administrator <not ack.>
26452 4/16/01 3:47:09 PM System stop
26453 4/16/01 4:10:13 PM System start
26454 4/16/01 4:11:25 PM Event log is full (events lost) <not ack.>
26455 4/16/01 4:12:21 PM Log in Administrator
26456 4/16/01 4:12:31 PM System stop
Page 1 of 1

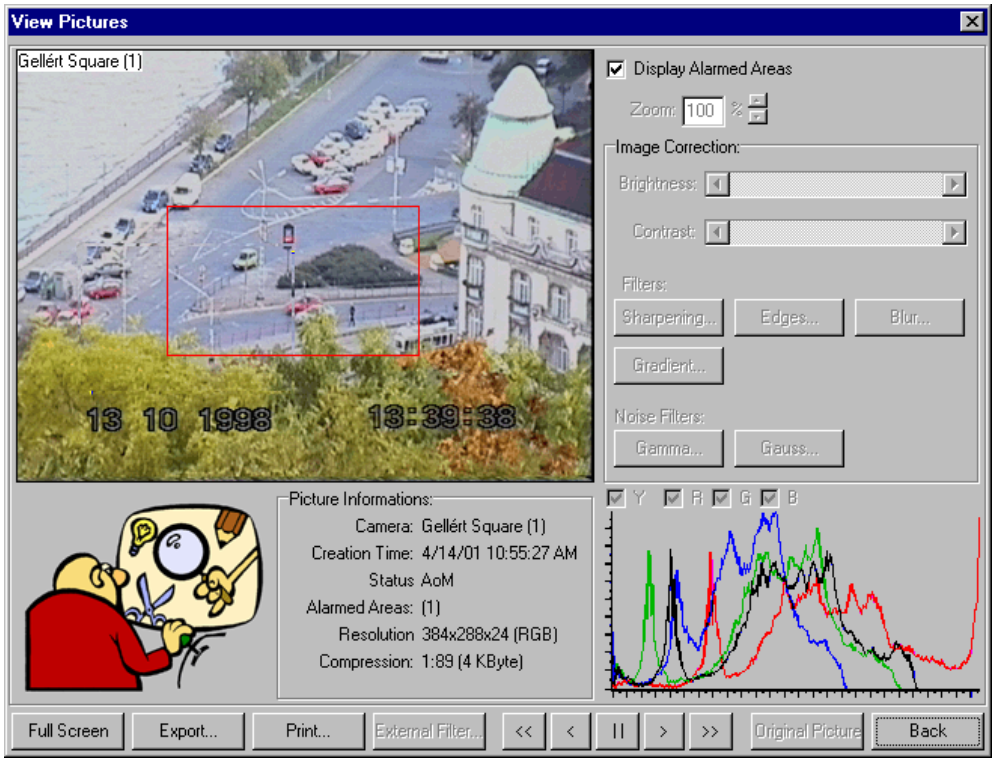
10.1.2. Export to 120MB FDD

In this menu you can export the filtered event log and the related pictures in HTML and JPEG formats. You can view the export with the help of any web browsers:


Hexium Vidoc Event Log - Microsoft Internet Explorer
Fájl Szerkesztés Nézet Kedvencek Eszközök Súgó
Vissza Előre Leállítás Frissítés Kezdőlap Keresés Kedvencek Előzmények Posta Méret Nyomtatás Szerkesztés
Cím A:\main.html
Ugrás Links
HEXIUM
Vidoc
Base Data:
Date: 4/16/01 5:42:33 PM
User: administrator
Filter Conditions:
Time Interval: 4/16/01 3:00:00 PM-
Event Log Type: System Messages
Acknowledged:
Event:
User:
Acknowledged by:
Camera:
Area:
Other:
ID Time Event User Acknowledged by Camera, Machine
5794 4/16/01 3:01:09 PM Backup finished Administrator (1)
10550 4/16/01 3:10:29 PM Too many non-backuped event logs or pictures (1)
21942 4/16/01 3:40:30 PM Event log is full (events lost) (1)
22978 4/16/01 3:41:56 PM System stop (1)
22979 4/16/01 3:43:39 PM System start (1)
23145 4/16/01 3:43:52 PM Log in Administrator (1)
Kész
Sajátgép

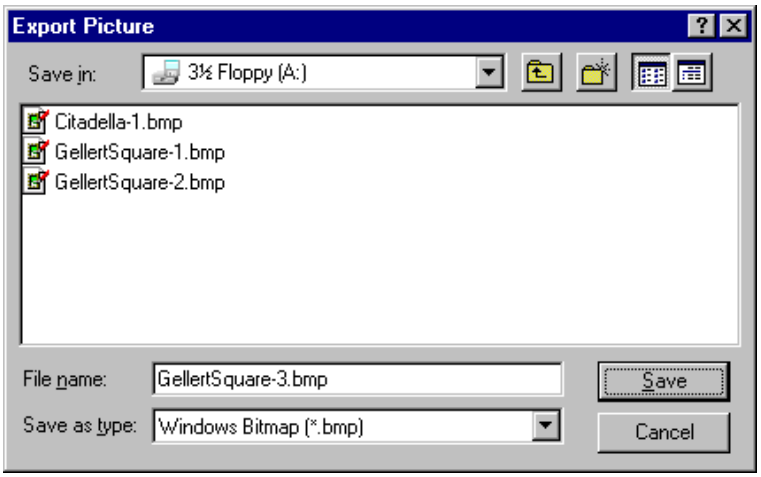
10.2. Pictures

In this menu you can view the picture related to the event log:



10.2.1. Export

You can save the current picture in a standard format:



10.2.2. Print

You can see the current picture and the parameters of the event:

Vidoc - picture
Close
Hexium Vidoc
Created at: 4/16/01 5:00:12 PM administrator
Event log:
Event log: 34870 4/16/01 4:33:57 PM Motion alarm
User: Administrator
Acknowledged by: <not ack.>
Camera: Gellért Square (1)
Alarmed Areas: 1.
Picture parameters:
Properties: 192x144x8 (Grays cale) AaM
Modifications: <no>
0% Page 1 of 1

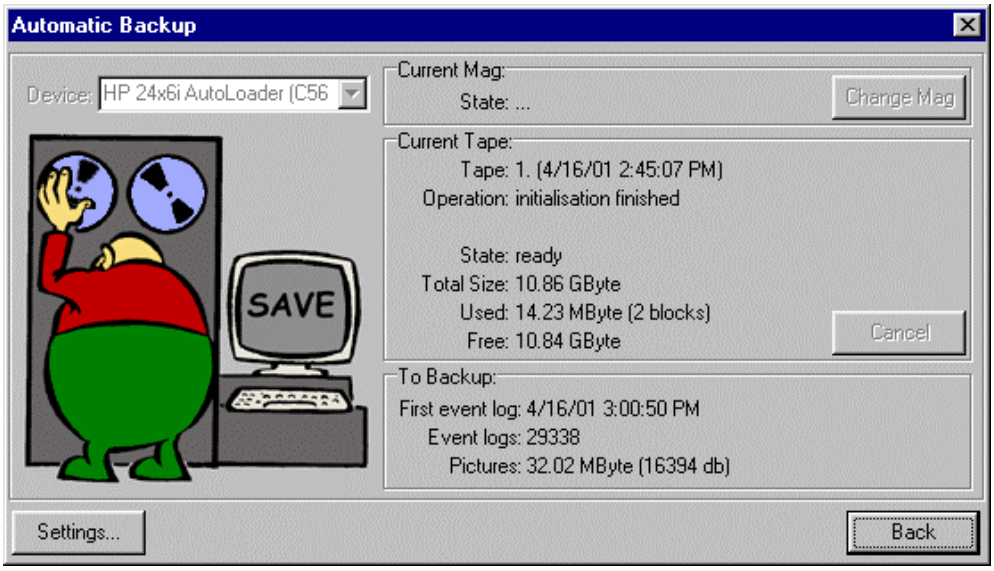
11. Backup

In this menu you can store the event log or view previously stored backups.

11.1.

Backup/Automatic Backup

The software uses the DAT unit manufactured by HP, equipped with 6-tape mag Autoloader.

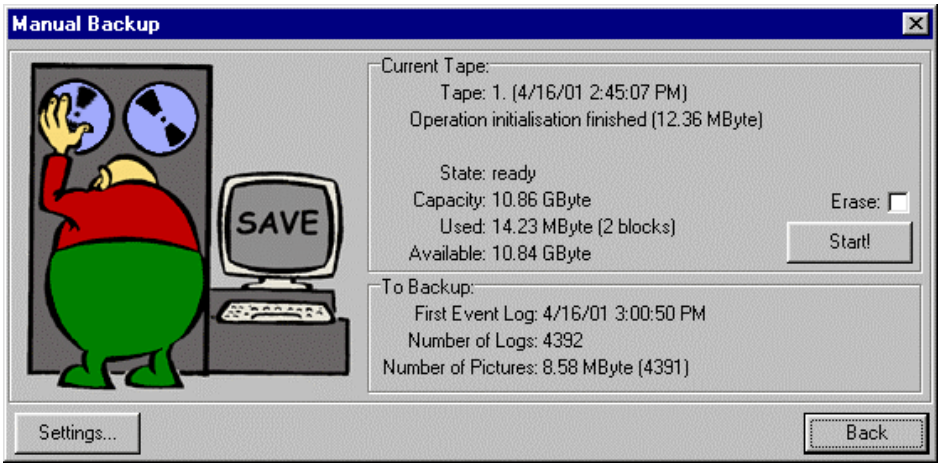


Backup starts after a certain number of events or amount of pictures set by the user piles up. If the tape is full, the system automatically loads the next tape and continues backup. If the mag is full, the user can replace it with a new one by the button Change Mag.

IMPORTANT
To insure the correct operation of the backup unit, put a cleaning tape to the mag to the position of the 6. tape

WARNING
If you take a mag from the unit and put it back, backup will continue on the first tape possibly rewriting the recorded data you may still need. To avoid that, always change the mag to another one.

11.2. Backup/Manual Backup



Start!: starting the backup manually

Settings: setting the backup parameters

IMPORTANT
To insure the correct operation of the backup unit, use a cleaning tape at least once a week.
If you cannot provide a dust-free environment, clean the unit several times a week.

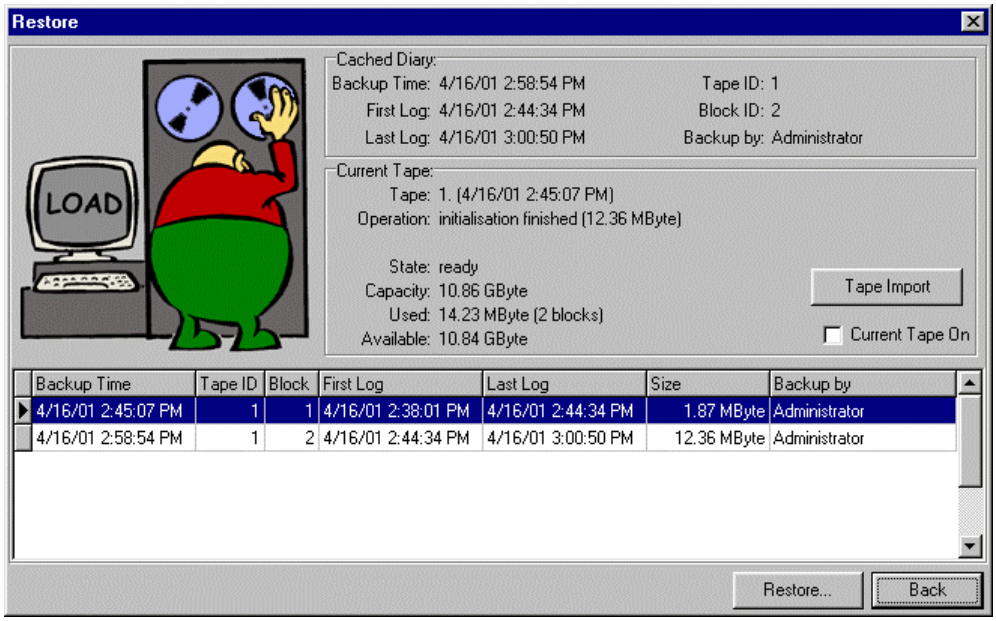
Cleaning less often than needed will reduce the life span of the backup unit and can make harm on its operation. Hexium Ltd will not take the responsibility for data losses or other damages due to this problem.

WARNING
It is forbidden to use the cleaning tape more times than allowed in its brochure.

11.3. Backup/Restore

Restore: you can view the event log previously stored

Tape import: in this menu you can import a tape recorded in another system.


Restore
LOAD
Cached Diary:
Backup Time: 4/16/01 2:58:54 PM
Tape ID: 1
First Log: 4/16/01 2:44:34 PM
Block ID: 2
Last Log: 4/16/01 3:00:50 PM
Backup by: Administrator
Current Tape:
Tape: 1. (4/16/01 2:45:07 PM)
Operation: initialisation finished (12.36 MByte)
State: ready
Capacity: 10.86 GByte
Used: 14.23 MByte (2 blocks)
Available: 10.84 GByte
Tape Import
Current Tape On
Backup Time
Tape ID
Block
First Log
Last Log
Size
Backup by
4/16/01 2:45:07 PM
1
1
4/16/01 2:38:01 PM
4/16/01 2:44:34 PM
1.87 MByte
Administrator
4/16/01 2:58:54 PM
1
2
4/16/01 2:44:34 PM
4/16/01 3:00:50 PM
12.36 MByte
Administrator
Restore...
Back

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A. Appendix – List of Rights

Basic Rights

Exit	self-evident
Set user	new user, rights
User parameters	own password
Set all users	modifying the login name and password of any users
Settings/Save	save all settings
Settings/Restore	restore all settings

Display Rights

Display/Set the number of cameras	number of cameras displayed
Display/Set parameters in picture	parameter types displayed in the picture (text in picture+text position)
Display/Set display parameters	how the picture is displayed
Display/Set camera positions	which camera picture should be seen at the different positions

Digitising Parameters Rights

Digitising/Set camera name	self-evident (after selecting the camera, name)
Digitising/Set automatic order	the order, resolution, video mode of picture digitising
Digitising/Set non-automatic picture priority	the ratio of automatic and non-automatic digitising, i.e. the maximum number of non-automatic pictures before restarting the automatic digitising non-automatic picture: operator picture, triggered picture, pre-, and post-triggered picture
Digitising/Set delay time	modifying the delay time between

	digitising two pictures
Digitising/Set operator picture	parameters of operator picture (pre-, and post-triggered pictures are taken with these parameters)
Set registers	self-evident

Trigger, Pre-Post Trigger Rights

Set Trigger	self-evident
Set Pre-Post Trigger parameters	self-evident

Motion Detector Rights

Motion detector/Set area name	setting the area name (after selecting the camera and the area)
Motion detector/Set area	activate the area, set the sensitivity, time value, time interval, size (left, right, bottom, top)

External Alarm Settings Rights

Set external alarms	all setting possibilities

Compression Dialogue Rights

Set compression parameters	all setting possibilities
Compression/Set EJPEG	setting EJPEG parameters

Pan/Tilt/Zoom Rights

Set pan/tilt/zoom	self-evident

Network Settings Rights

Set network parameters	self-evident

Alarm Sound Settings Rights

Alarm sound enabled/disabled	self-evident
Set sound parameters	self-evident

WatchDog Device Rights

WatchDog/Modifying device	self-evident
WatchDog/Set parameters	self-evident

Webcamera Rights

Set Webcamera parameters	self-evident

Modem Rights

Modem/Dial	enable or disable dialling
Modem/Hang-up	enable or disable hang-up
Modem/Settings	modifying dialling parameters

Event Log and Picture Rights

Event log/View	view the event log
Event log/Acknowledge	enable or disable acknowledgement
Event log/Print	print event log
Image processing/Export	enable or disable image export
Image processing/Apply filters	self-evident
Image processing/Print	print picture

Backup Rights

Backup/Modify mode	select backup mode
Backup/Set parameters	self-evident
Backup/Start	enable or disable start of backup
Backup/Cancel	enable or disable cancellation of backup
Backup/Delete tape	enable or disable deletion of Vidoc tape
Backup/Change mag	enable or disable mag change

Restore/Start	enable or disable start of restore
Restore/Cancel	enable or disable cancellation of restore
Restore/Tape import	self-evident

B. Appendix – Events

Basic Events

Log in	log in to the system
Log out	log out of the system
System start	the system has started
System stop	the system has stopped
Save settings	self-evident
Restore settings	self-evident
Operator picture	taking operator pictures
Hard disc is full (events lost)	the hard disc unit storing the events is full
Event log is full (events lost)	event log has reached its maximum possible size
Hard disc is full (pictures lost)	the hard disc unit storing the pictures is full
Picture space is full (pictures lost)	the hard disc unit reserved for pictures is full

Display Events

Modifying the number of displayed cameras	self-evident
Modifying displayed parameters	modifying the settings of text in picture and text position
Modifying display parameters	modifying display
Modifying the position of displayed cameras	modifying the position of camera pictures

Events of Digitising Settings

Modifying camera name	self-evident
Modifying automatic order	modifying the automatic order of picture digitising
Modifying non-automatic picture priority	modifying the priority of manual pictures
Modifying digitising delay time	self-evident
Modifying the parameters of operator picture	self-evident
Modifying camera registers	modifying the registers

Trigger, Pre-Post Trigger Module Events

Modifying trigger parameters	self-evident
Modifying Pre-Post Trigger parameters	self-evident
Triggered picture	trigger time has ended
Pre-Triggered picture	self-evident
Post-Triggered picture	self-evident

Motion Detector Module Events

Modifying the name of motion detector area	self-evident
Modifying motion detector area	modifying the parameters of the area
Motion alarm	motion has been noticed in the picture

External Alarm Module Events

Modifying the settings of external alarm	self-evident
External alarm	the external alarm input has shown alarm

Compression Module Events

Modifying compression parameters	self-evident
Modifying EJPEG parameters	self-evident

Pan/Tilt/Zoom Events

Setting Pan/Tilt/Zoom	self-evident

Network Events

Modifying network parameters	self-evident
Connected	self-evident
Connection closed	self-evident
Reconnected	self-evident
Disconnected	self-evident

Alarm Sound Events

Alarm sound enabled	self-evident
Alarm sound disabled	self-evident
Modifying sound parameters	self-evident

WatchDog Device Events

Modifying WatchDog device	self-evident
Setting WatchDog parameters	self-evident

Webcamera Events

Modifying Webcamera parameters	self-evident

Event Log and Picture Events

Print event log	self-evident
Export picture	self-evident
Print picture	self-evident

Backup Events

Modifying backup mode	self-evident
Modifying backup parameters	self-evident
Backup started (manual)	self-evident
Backup started (automatic)	self-evident
Backup started (continuous)	self-evident
Backup finished	self-evident
Backup cancelled	self-evident
Error during backup	self-evident
Delete tape	delete the tape used by Vidoc
Restore started	self-evident
Restore finished	self-evident
Restore cancelled	self-evident
Error during restore	self-evident
Too many non-backed-up event logs or pictures	self-evident
Tape import started	self-evident
Tape import finished	self-evident
Tape import cancelled	self-evident
Error during tape import	self-evident

Modem Events

Successful dial	self-evident
Successful hang-up	self-evident
Modifying modem parameters	self-evident

C. Appendix – Frequent Questions/Errors

How is the digitising card able to accept 6 video signs if there are only 4 entries at the back?

There are really only 4 entries at the back of the digitising card, but this is due to the fact that unfortunately there is no more room there for others.

- The card is able to treat two more entries, but only with the help of an enlarging panel supplement.

Why aren't there pictures from the camera?

- Check the power supply of the cameras, the intactness of video cables, the contact between the video cables and the digitising card. Check whether the computer is switched on, and the Hexium Vidoc system is running.
- Check if the driver of the digitising card has been installed; if the Start / Settings / Control Panel / Hexium HV-PCI6 icon is listed.
- Check whether the driver has started; if the HexSAA7146 device is running at Start / Settings / Control panel / Devices
- Check the settings of the driver at Start / Settings / Control panel / Hexium HV-PCI6
  - Size of driver memory should be at least 1344,
  - choice of version should be appropriate, usually HV-PCI6 Ver 1.0 Rev A,B,C,D
  - entry settings should correspond to the system of your digitising card, usually 4 BNC on the card (and not 4 BNC on the card before Ver 1.0)
- Choose Settings / Digitising menu from Vidoc, check if the setting called Automatic order contains the camera in question.
- Choose Settings / Display menu from Vidoc, check if the camera in question is shown on the monitor.

There are pictures from all cameras except camera 1. Why?

The error may lie in the improper configuration of the digitising card driver.

- Check if the settings at Start / Settings / Control panel / Hexium HV-PCI6 Entries correspond with your currently used system.

The pictures of the cameras are continuously changing to lighter and darker alternately. Why is it so?

The time invariable of the automatic gain control (AGC) applied in digitising is too high, so it cannot follow the quick picture shifts.

- Install the AGC-OFF version of the digitising card driver.

Unfortunately the video sign is quite weak by the time it gets to the computer. Is there any easy solution for this problem?

Yes, there is! The degree of gain of the digitising card entry can be modified.

- Choose the menu Settings / Digitising from Vidoc, then choose the camera in question.
- Go to Register settings and choose register Static Gain Control 2, 3 or 4 (only one of the three registers sets the camera in question), then set the degree of gain.

There is a horizontal black line in the middle of the pictures from the cameras, and it is moving up and down. What is this and how can I remove it?

The problem is that the video signs connected to the same card are not synchronised, and the multiplexer at the digitising card does not wait until the digitising circuit adopts this synchronicity.

- Choose the menu Settings / Digitising from Vidoc, then increase the Camerashift-delay parameter (in our experience 120-150ms is enough).
- Reset your computer and then the Vidoc system.

One of the camera pictures is not stable, or there is another camera picture in its place. How can I correct it?

If a longer delay time does not help (see above), the problem is that the synchrony part of the video signal is not suitable for the digitising circuit (either too low or out of the synchrony domain).

- Choose the menu Settings / Digitising from Vidoc, then select the camera in question.
- Select Register Settings, then Static Gain Control 2, 3 or 4 register (only one of these three is valid for the camera), and set the gain value to have a suitable picture.
- If the picture is still not stable, try to synchronise the Clamping Level Control 21, 22, 31, 32 registers (one of these four registers is valid for the camera).

In Vidoc the black-and-white camera pictures are presented in a limited number of colours or as coloured pictures. How can I correct it?

This problem may be due to wrong display settings of the computer. You can correct it in the following way:

- Check at Start / Settings / Control Panel / Display / Settings / Colour Palette if the set number of colours is at least 32.768. Set this number 32.768 at the minimum.
- Reset the Vidoc system.

There is not any event recorded in the event log. What is the reason?

You can filter the events according to many conditions (Time Limit, User, Event, Event Type). The above phenomenon is due to the fact that there is no event meeting the filter conditions you have set. To see all events, select panel "All", then delete the conditions referring to the time of the event.